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## TRAITE DE COOPERATION EN MATIERE DE BREVETS

**PCT** 

REGO 2 8 JUN 2004

## RAPPORT D'EXAMEN PRELIMINAIRE INTERNATIONAL

(article 36 et règle 70 du PCT)

| Référe<br>mand |                      | dossi            | er du déposant ou du  | POUR SUITE A DON  | INER voir la notifica<br>préliminaire in                              | tion de transmission du rapport d'examen<br>ternational (formulaire PCT/IPEA/416)  |
|----------------|----------------------|------------------|---|---|---|--|
| Dema           | nde inte             | ernatio          | nale No.  | Date du dépôt internationa                                    | l (jour/mois/année)   | Date de priorité (jourtmoistannée)   |
|                | /FR 03               |                  |   | 05.03.2003  |   | 06.03.2002   |
| Class          | lfication            | interr           | ationale des brevets (CIE   | l<br>3) ou à la fois classification n                         | ationale et CIB   |  |
|                | H17/13               |                  |   |   |   |  |
| Dépo<br>SAII   | sant<br>NT-GC        | BAII             | N VETROTEX FRAN   | ICE S.A.  |   | -  |
| 1.             | Le pre<br>intern     | ésent<br>ation   | rapport d'examen prél<br>al, est transmis au dép  | iminaire international, éta<br>osant conformément à l'a       | bli par l'administara<br>rticle 36.                                   | tion chargée de l'examen préliminaire  |
| 2.             | Ce R                 |                  |   | es, y compris la présente                                     |   | 1  |
|                |                      | ont é            | accompagné d'ANNE:<br>té modifiées et qui ser<br>ès de l'administration d<br>nstructions administra | vent de base au present l<br>chargée de l'examen préli        | es de la description<br>rapport ou de feuille<br>minaire internationa | , des revendications ou des dessins qui<br>s contenant des rectifications faites<br>I (voir la règle 70.16 et l'instruction 607  |
|                | Ces                  | annex            | ces comprennent feui  | lles.   |   |  |
|                |                      |                  |   |   |   |  |
| 3.             | Le pi                | ésen             | t rapport contient des i  | ndications et les pages co                                    | orrespondantes rela   | tives aux points suivants :  |
| 1              | l                    | $\boxtimes$      | Base de l'opinion   |   |   | ·  |
|                | H                    |                  | Priorité  |   |   |  |
|                | Ш                    |                  | Absence de formulat<br>possibilité d'application  | ion d'opinion quant à la n<br>on industrielle                 | ouveauté, l'activité i  | nventive et la   |
|                | ١٧                   |                  | Absence d'unité de l'   | invention   |   | and the state of t |
|                | V                    | ×                | Déclaration motivée d'application industri  | selon la règle 66.2(a)(ii) c<br>elle; citations et explicatio | quant à la nouveauté<br>ins à l'appui de cette                        | é, l'activité inventive et la possibilité<br>e déclaration   |
|                | Vi                   |                  | Certains documents  |   |   |  |
|                | VII                  |                  | Irrégularités dans la   | demande internationale  |   |  |
|                | VIII                 |                  | Observations relative   | es à la demande internati                                     | onale   |  |
|                |                      |                  |   |   |   |  |
| Da             | te de pre            | ésenta<br>ale    | tion de la demande d'exa  | amen préliminaire   | Date d'achèvement   | du présent rapport   |
| 06             | .05.20               | 03               |   |   | 25.06.2004  |  |
| No<br>pré      | m et ad<br>Sliminair | resse<br>e inter | postale de l'adminstration<br>national  | chargée de l'examen   | Fonctionnaire autori  | SÉ   |
| -              |                      | - O              | fice européen des brevet  | S   | Okunowski, J  |  |
| 1              | <i>(</i> )           | Te               | ·80298 Munich<br>81. +49 89 2399 - 0 Tx: 52   | 3656 epmu d   | •   | 0.00.2200.8075   |
| -              | <u> </u>             | - Fa             | ax: +49 89 2399 - 4465  |   | N° de téléphone +4  | A DA でつれた-O21 A  |

#### RAPPORT D'EXAMEN PRÉLIMINAIRE INTERNATIONAL

Demande internationale n°

PCT/FR 03/00701

| I. E | 3ase | du | rapp | ort |
|------|------|----|------|-----|
|------|------|----|------|-----|

1. En ce qui concerne les éléments de la demande internationale (les feuilles de remplacement qui ont été remises à l'office récepteur en réponse à une invitation faite conformément à l'article 14 sont considérées, dans le présent rapport, comme "initialement déposées" et ne sont pas jointes en annexe au rapport puisqu'elles ne contiennent pas de modifications (règles 70.16 et 70.17)):

|    | Desc  | ription, Pages   |  |            |
|----|-------|--|--|------------|
|    | 1-8   | , iption, i uges   | telles qu'initialement déposées  |            |
|    | Reve  | endications, No.   |  |            |
|    | 1-25  |  | telles qu'initialement déposées  |            |
|    | Des   | sins, Feuilles   |  |            |
|    | 1/1   |  | telles qu'initialement déposées  |            |
| 2. | OU li | e qui concerne la <b>lan</b> g<br>ii ont été remis dans la<br>raire donnée sous ce p | gue, tous les éléments indiqués ci-dessus étaient à la disposition de l'administr<br>a langue dans laquelle la demande internationale a été déposée, sauf indication<br>point. | ation<br>n |
|    | Ces   | éléments étaient à la  | disposition de l'administration ou lui ont été remis dans la langue suivante: ,  | qui est:   |
|    |       | la langue d'une traduc   | ction remise aux fins de la recherche internationale (selon la règle 23.1(b)).   |            |
|    |       | la langue de publication   | on de la demande internationale (selon la règle 48.3(b)).  |            |
|    |       | la langue de la traduc<br>55.3).   | tion remise aux fins de l'examen préliminaire internationale (selon la règle 55.2  | ? ou       |
| 3. | inte  | ce qui concerne les <b>sé</b><br>rnationale (le cas éché<br>uences :                 | quences de nucléotides ou d'acide aminésdivulguées dans la demande<br>éant), l'examen préliminaire internationale a été effectué sur la base du listage                        | des        |
|    |       | contenu dans la dema   | ande internationale, sous forme écrite.  |            |
|    |       | déposé avec la dema  | ande internationale, sous forme déchiffrable par ordinateur.   |            |
|    |       | remis ultérieurement   | à l'administration, sous forme écrite.   |            |
|    |       | remis ultérieurement   | à l'administration, sous forme déchiffrable par ordinateur.  |            |
|    |       | La déclaration, selon  | laquelle le listage des séquences par écrit et fourni ultérieurement ne va pas a<br>e dans la demande telle que déposée, a été fournie.  |            |
|    |       | t - 16-levellen enlan  | laquelle les informations enregistrées sous déchiffrable par ordinateur sont ide<br>les séquences Présenté par écrit, a été fournie.   | entiques   |
| 4  | . Les | modifications ont ent  | raîné l'annulation :   |            |
|    |       | de la description,   | pages:   |            |
|    |       | des revendications,  | nos:   |            |
|    |       | des dessins,   | feuilles:  |            |
|    |       |  |  |            |

### RAPPORT D'EXAMEN PRÉLIMINAIRE INTERNATIONAL

Demande internationale n°

1-25

PCT/FR 03/00701

| 5. 🗆 | Le présent rapport a été formulé abstraction faite (de certaines) des modifications, qui ont été considéré comme allant au-delà de l'exposé de l'invention tel qu'il a été déposé, comme il est indiqué ci-après (règ 70.2(c)): |
|------|---|
|      | 7 0.2(0)/ 1   |

(Toute feuille de remplacement comportant des modifications de cette nature doit être indiquée au point 1 et annexée au présent rapport.)

- 6. Observations complémentaires, le cas échéant :
- V. Déclaration motivée selon l'article 35(2) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration
- 1. Déclaration

Nouveauté Oui: Revendications 1-25

Non: Revendications

Activité inventive Oui: Revendications 1-25

Possibilité d'application industrielle Non: Revendications Revendications

Non: Revendications

2. Citations et explications

voir feuille séparée

#### PCT/FR03/00701

#### section V

En comparaison avec l'état de la technique le plus proche, <u>US-A-4 626 289</u>, l'objet des revendications présentes 19-25 se distingue en ce que la masse surfacique varie de moins de 20% sur la surface, et en ce que au moins 80% en poids des filaments sont sous la forme de fil comprenant au moins 10 filaments. Ces caractéristiques offrent une solution pour les problèmes évoquées de l'amélioration de la homogénéité de la nappe ainsi que la diminiuation de la défilamentarisation.

En comparaison avec l'état de la technique le plus proche, l'objet des revendications présentes 1-18 se distingue en ce que le liquide d'ensimage comprend un agent collant, et en ce que une étape de sechage se trouve entre l'étape d'ensimage et l'étape de mise en dispersion.

Il n'y a pas une suggestion dans l'art antérieur que ces mésures sauraient offrir les solutions des problèmes évoqués ci-avant.

L'objet des revendications présentes est donc nouveau, et implique une activité inventive.

# Translation





#### PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference CC4002011PCT | FOR FURTHER ACTION   | See Form PCT/IPEA/416  |
|--|--|--|
| International application No.<br>PCT/FR2003/000701 | International filing date (day/mont  | , ( , , , , , , , , , , , , , , , , , ,  |
|  | 05 mars 2003 (05.03.20   | 03) 06 mars 2002 (06.03.2002)  |
| D21H 17/13   | PC) or national classification and IPC   |  |
| Applicant  | SAINT-GOBAIN VETROTEX F  | RANCE S.A.   |
| 1. This report is the internation                  | nal preliminary examination report establish   | ed by this International Preliminary Examining   |
| Authority under Article 35                         | and transmitted to the applicant according to  | Article 36.  |
| 2. This REPORT consists of a                       | A-A-1-C  |  |
|  | total of4 sheets, including the  | is cover sheet.  |
|  | nied by ANNEXES, comprising:   |  |
| a. [ (sent to the applied                          | cant and to the International Bureau) a total  | of sheets, as follows:   |
| and/Of Silv  | the description, claims and/or drawings whice<br>eets containing rectifications authorized by t<br>rative Instructions). | h have been amended and are the basis of this report<br>his Authority (see Rule 70.16 and Section 607 of the |
| sheets wh<br>beyond th<br>Supplement               | e disclosure in the international application  | Authority considers contain an amendment that goes as filed, as indicated in item 4 of Box No. I and the     |
| b. (sent to the Int                                | ernational Bureau only) a total of (inc  | icate type and number of electronic carrier(s))  |
|  | y, as indicated in the Supplemental Box R  | nce listing and/or tables related thereto, in computer elating to Sequence Listing (see Section 802 of the   |
| 4. This report contains indication                 | ons relating to the following items:   |  |
| Box No. I Basis                                    | of the report  |  |
| Box No. II Priorit                                 | у  |  |
| Box No. III Non-ea                                 | tablishment of opinion with regard to novel  | y, inventive step and industrial applicability   |
| 1 1  | f unity of invention   |  |
| Box No. V Reason citation                          | ned statement under Article 35(2) with regard<br>as and explanations supporting such statemen                            | to novelty, inventive step or industrial applicability;  |
| l l  | documents cited  |  |
| Box No. VII Certain                                | defects in the international application   |  |

| Date of submission of the demand        | Date of completion of this report |
|---|-----------------------------------|
| 06 mai 2003 (06.05.2003)                | 25 June 2004 (25.06.2004)         |
| Name and mailing address of the IPBA/EP | Authorized officer                |
| Facsimile No.                           | Telephone No.                     |

Box No. VIII Certain observations on the international application

| 1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.  This report is based on translation furnished for the purpose of:  international search (under Rules 12.3 and 23.1(b))  publication of the international application (under Rule 12.4)  international preliminary examination (under Rules 55.2 and/or 55.3)  2. With regard to the elements of the international application, this report is based on (replacement sheets which have furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally find furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally find furnished the description:  pages   |  |
|---|--|
| winter is inguige of a translation furnished for the purpose of:  international search (under Rules 12.3 and 23.1(b))  publication of the international application (under Rules 55.2 and/or 55.3)  2. With regard to the elements of the international application, this report is based on (replacement sheets which have furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally fix and are not annexed to this report):  The international application as originally filed/furnished  the description:  pages  1-8  received by this Authority on  pages*  1-8  received by this Authority on  pages*  received by this Authority on  as a samended (together with any statement) under Art received by this Authority on  pages*  received by this Authority on  as equence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.  The amendments have resulted in the cancellation of:  the description, pages  the claims, Nos.  the drawings, sheets/figs  the drawings, sheets/figs  the drawings, sheets/figs  the sequence listing (specify):  | ion in the language in which it was filed, unless  |
| publication of the international application (under Rules 55.2 and/or 55.3)  2. With regard to the elements of the international application, this report is based on (replacement sheets which have furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally find and are not annexed to this report):  The international application as originally filed/furnished the description:  pages  1-8  received by this Authority on  pages*  1-25  , as originally filed/furnished the claims:  pages  1-25  , as amended (together with any statement) under Article 14 are referred to in this report as "originally filed/furnished the drawings:  pages  1-125  , as amended (together with any statement) under Article 14 are referred to in this report as "originally filed/furnished the drawings:  pages  1-25  , as originally filed/furnished the drawings:  pages*  received by this Authority on  the drawings:  pages*  received by this Authority on  a sequence listing and/or any related table(s) — see Supplemental Box Relating to Sequence Listing.  The amendments have resulted in the cancellation of:  the description, pages  the claims, Nos.  the drawings, sheets/figs  the sequence listing (specify):   | the following language,  |
| international preliminary examination (under Rules 55.2 and/or 55.3)  2. With regard to the elements of the international application, this report is based on (replacement sheets which have furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally fix and are not annexed to this report):    The international application as originally filed/furnished   |  |
| 2. With regard to the elements of the international application, this report is based on (replacement sheets which have furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally fix and are not anxeed to this report):  The international application as originally filed/furnished the description:  pages  |  |
| and are not annexed to this report:  The international application as originally filed/furnished  the description: pages pages* | 5.3)   |
| and are not annexed to this report):  The international application as originally filed/furnished the description: pages  |  |
| pages   | s based on (replacement sheets which have been<br>4 are referred to in this report as "originally filed" |
| pages*  |  |
| pages* 1-8 received by this Authority on pages* received by this Authority on received by this Authority on pages 1-25 , as originally filed/fur pages* , as amended (together with any statement) under Art pages* received by this Authority on pages* received by this Authority on received by this Authority on pages 1/1 , as originally filed/fur pages* received by this Authority on a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.  The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify):   | , as originally filed/furnished  |
| the claims:  pages  |  |
| pages   1-25   , as originally filed/fur pages*   , as amended (together with any statement) under Art pages*   received by this Authority on   | hority on  |
| pages*  |  |
| pages*  | as originally filed/furnished  |
| pages* received by this Authority on pages* received by this Authority on  the drawings: pages 1/1 , as originally filed/fun pages* received by this Authority on pages* received by this Authority on received by this Authority on a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.  The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify):  |  |
| the drawings:  pages 1/1 , as originally filed/fun pages* received by this Authority on pages* received by this Authority on pages* received by this Authority on a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.  The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify):   | hority on  |
| pages*  | nority on  |
| pages*  |  |
| pages* received by this Authority on received by this Authority on  a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.  The amendments have resulted in the cancellation of:  the description, pages the claims, Nos.  the drawings, sheets/figs the sequence listing (specify):   | os originally filed/franch - 1   |
| pages* received by this Authority on a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.  3 The amendments have resulted in the cancellation of: the description, pages the claims, Nos the drawings, sheets/figs the sequence listing (specify):   |  |
| a sequence listing and/or any related table(s) — see Supplemental Box Relating to Sequence Listing.  The amendments have resulted in the cancellation of:  the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify):  | ·  |
| The amendments have resulted in the cancellation of:  the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify):   | "  |
| the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify):   | sating to Sequence Listing.  |
| the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify):   |  |
| the claims, Nos the drawings, sheets/figs the sequence listing (specify):   |  |
| the drawings, sheets/figs the sequence listing (specify):   |  |
| the sequence listing (specify):   |  |
| the sequence listing (specify):   |  |
| any table(s) related to sequence listing (specify):   |  |
|   | <del></del>  |
|   |  |
| This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).  the description, pages  the claims, Nos.   | as filed, as indicated in the Supplemental Box   |
| the drawings, sheets/figs   |  |
| the sequence listing (specify):   |  |
| any table(s) related to sequence listing (specify):   |  |
|   | <del></del>  |
| * If item 4 applies, some or all of those sheets may be marked "superseded."  |  |

| v. | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; |
|----|--|
|    | citations and explanations supporting such statement   |

| Statement                     |        |      |     |
|-------------------------------|--------|------|-----|
| Novelty (N)                   | Claims | 1-25 | YES |
|                               | Claims |      | NO  |
| Inventive step (IS)           | Claims | 1-25 | YES |
|                               | Claims |      | NO  |
| Industrial applicability (IA) | Claims | 1-25 | YES |
|                               | Claims |      | NO  |

#### 2. Citations and explanations

The subject matter of the current claims 19-25 differs from the closest prior art, <u>US-A-4 626 289</u>, in that the surface mass varies by less than 20% over the surface, and in that at least 80% by weight of the filaments are in the form of a yarn including at least 10 filaments. These features provide a solution to the problems of improving the uniformity of the web as well as of reducing filament separation.

The subject matter of the current claims 1-18 differs from the closest prior art in that the sizing liquid includes a film former and in that a drying step is applied between the sizing step and the dispersion step.

There is no suggestion in the prior art that these measures could provide solutions to the above problems.

Therefore, the subject matter of the current claims is novel and involves an inventive step.